

RECORDING NOISE REDUCTION

Abstract of the Disclosure

A magnetic recording medium includes a highly permeable magnetic layer proximal to a recording layer. During recording, the permeable magnetic layer modifies the recording field from a recording head to produce consistently shaped recording transitions with a significant perpendicular component. The transitions are consistently shaped even though the distance between the recording head and the surface of the medium may change. Transitions so formed result in a reduction of noise from the medium surface roughness. The permeable magnetic layer further reduces noise caused by stray dipole fields.